



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Mitsubishi Chemical America, inc.
401 Volvo Parkway
Chesapeake, VA 23320

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Alpolic and Alpolic/FR " Composite Wall Panel Systems

APPROVAL DOCUMENT: Drawing No. 1, titled " Alpolic and Alpolic/fr Composite Wall Panel Systems ", sheets 1 through 10 of 10, prepared by Mitsubishi Chemical America, Inc., signed and sealed by Christopher W. Stater, P.E., dated November 11, 2002, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # 00-0315.07 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

H.M.
04/17/03



NOA No 03-0130.06
Expiration Date: 08/09/2006
Approval Date: 04/17/2003
Page 1

ALPOLIC and ALPOLIC/FR (FIRE RATED)
COMPOSITE WALL PANEL SYSTEMS FOR
FLORIDA BUILDING CODE
SMALL MISSILE IMPACT

GENERAL NOTES

1. THESE ALPOLIC and APLOLIC/fr COMPOSITE PANELS SHALL BE USED FOR WALL CONSTRUCTION ONLY. EACH ACTUAL WALL PROJECT SHALL BE CONSTRUCTED USING THE DETAILS SHOWN ON THESE DRAWINGS AS MINIMUM REQUIRED SPECIFICATIONS.
2. THE WALL DESIGN ALLOWABLE PRESSURES FOR THESE WALL PANEL SYSTEMS ARE +70.0 PSF / -90.0 PSF

3. THESE ALPOLIC and APLOLIC/fr COMPOSITE WALL PANEL SYSTEMS ARE TESTED IN ACCORDANCE WITH THE FOLLOWING PROTOCOLS:
TAS-201-94, IMPACT TEST, SMALL MISSILE
TAS-202-94, UNIFORM STATIC AIR PRESSURE TEST
TAS-203-94, CYCLIC WIND PRESSURE TEST
AND THEY SHALL BE INSTALLED AS SHOWN IN THESE APPROVED DRAWINGS.

MATERIAL SPECIFICATIONS:

ALUMINUM EXTRUSIONS

1. MATERIAL: M2, F2, A2, HS, and HR ARE EXTRUDED ALUMINUM ALLOY 6063 WITH A T6 TEMPER. (By Kistler McDougall)
2. MATERIAL: CAY-1009 TEE, CAY-1010 FEMALE, CAY-1011 MALE, CAY-1012 STIFFENER AND CAY-1013 RETAINER ARE EXTRUDED ALUMINUM ALLOY 6063 WITH A T6 TEMPER (By CAY ARCHITECTURAL PRODUCTS)
3. FINISH: MILL FINISH

COMPOSITE PANEL

1. ALPOLIC ALUMINUM COMPOSITE METAL PANEL 4MM THICK (0.157") AND 6MM THICK (0.236") AS MANUFACTURED BY MITSUBISHI CHEMICAL AMERICA, INC., CHESAPEAKE, VA
2. ALPOLIC/fr (FIRE RATED) ALUMINUM COMPOSITE METAL PANEL 4MM THICK (0.157") AS MANUFACTURED BY MITSUBISHI CHEMICAL FUNCTIONAL PRODUCTS, INC., UEDA, JAPAN
3. CORE: THERMOPLASTIC MATERIAL WHICH IN COMPOSITE ASSEMBLY MEETS PERFORMANCE CHARACTERISTICS SPECIFIED.
4. FACE SHEET: 0.020" ALUMINUM 3105-H14 ALLOY
5. FINISH: LUMIFLON-BASE FLUROPOLYMER RESIN COATING.
6. MAXIMUM DIMENSIONS: 62" WIDE X 288" LONG
7. TECHNICAL DATA

DESCRIPTION	TEST	4MM ALPOLIC	4MM ALPOLIC/fr	6MM ALPOLIC
SPECIFIC GRAVITY		1.38	1.90	1.23
WEIGHT		1.12 LB/SQ.FT	1.56 LB/SQ.FT	1.50 LB/SQ.FT
TENSILE STRENGTH	ASTM E-8	7452 PSI	5693 PSI	5399 PSI
YIELD STRENGTH	ASTM E-8	NDY	NDY	NDY
ELONGATION	ASTM E-8	16%	8%	13%
PUNCHING SHEAR RESISTANCE (1"DIA.)	ASTM D-732	4025 PSI	4637 PSI	2816 PSI
PUNCHING SHEAR MAX LOAD	ASTM D-732	1920 PSI	2259 PSI	2121 LBS
BOND INTEGRITY VERTICAL PULL	ASTM C-297	1806 PSI	427 PSI	1664 PSI
DRUM PEEL	ASTM D-1781-76	33.6 IN-LB/IN	27.6 IN-LB/IN	33.6 IN-LB/IN
FLATWISE SHEAR	ASTM C-273	1225 PSI	949 PSI	1195 PSI
RATE OF BURNING	ASTM D-635	CC1	--	--
FLAME SPREAD INDEX	ASTM E-84	00	00	00
SMOKE DEVELOPED INDEX	ASTM E-84	00	10	10
SELF IGNITION TEMPERATURE	ASTM D-1929	752°F	837°F	752°F
FLASH IGNITION TEMPERATURE	ASTM D-1929	716°F	811°F	716°F
SURFACE FLAMMABILITY	ASTM E-108-88	PASSED	PASSED	PASSED
SOUND TRANSMISSION	ASTM E-413	STC-26	--	STC-26

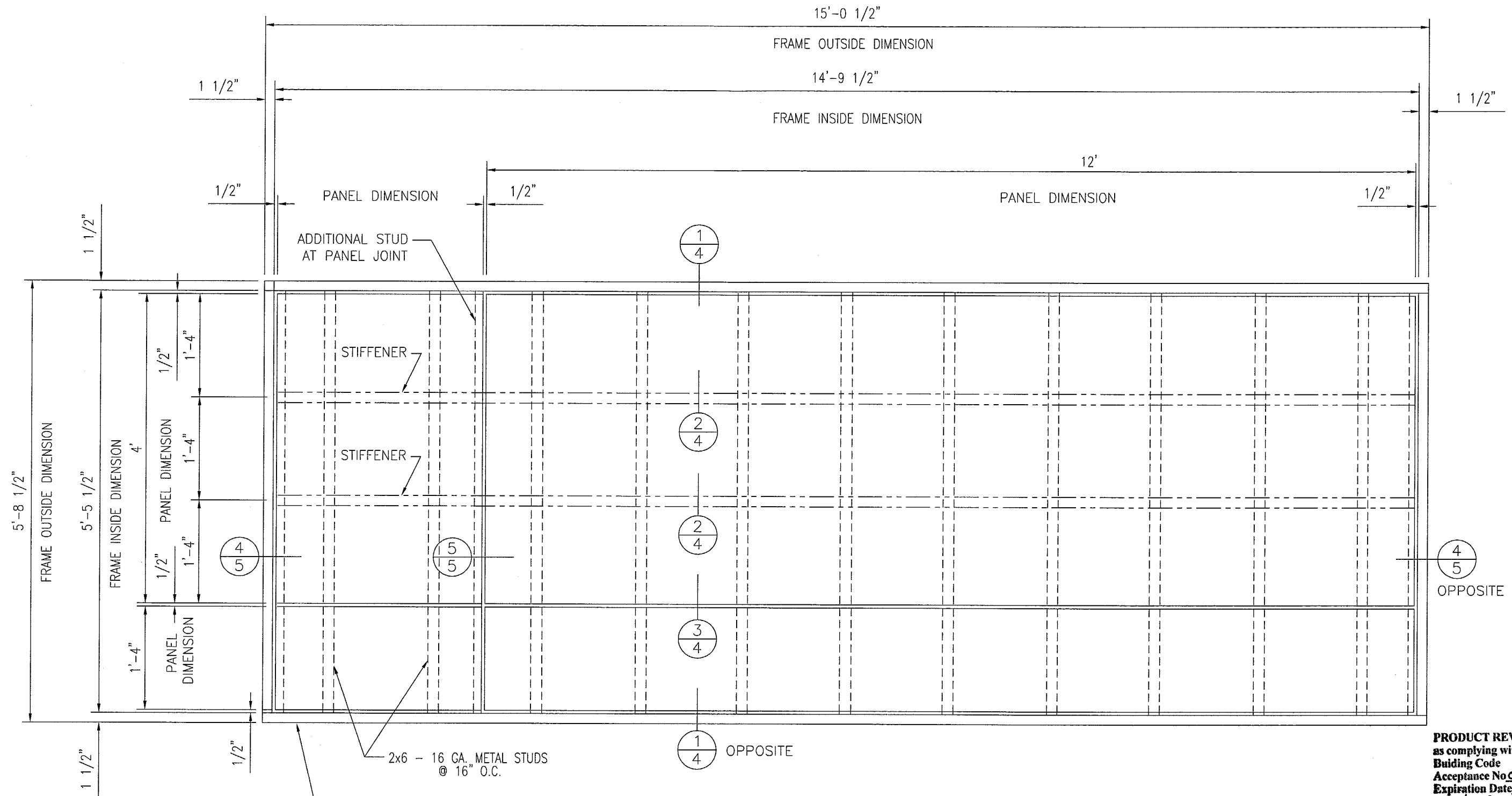
FRAMING & ACCESSORIES

1. STEEL STUDS AND TRACKS: 16 GA. MIN. GALVANIZED STEEL WITH MIN. PROPERTIES OF 50 KSI YIELD, 65 KSI ULTIMATE.
2. STUD & TRACK FASTENERS: #12 x 1-1/2" HEX WASHER HEAD TRAXX 3 BULDEX SCREW.
3. PANEL FASTENERS: #10 x 1" HEX WASHER HEAD TEK SCREWS SPACED AT 16" O.C.
4. STIFFENER FASTENERS: #10 x 1" HEX WASHER HEAD TEK SCREWS.
5. JOINT SILICONE: DOW CORNING #795 SILICONE SEALANT.
6. STRUCTURAL SILICONE: DOW CORNING #1199 SILICONE SEALANT.
7. BACKER ROD: 3/4" DIA. DENVER FOAM OPEN CELL BACKER ROD.
8. THE STRUCTURAL ADEQUACY OF THE 16 GA. GALVANIZED STEEL STUDS AND THE REST OF THE STRUCTURAL FRAMING SUPPORTING THE METAL PANELS IS NOT PART OF THIS PRODUCT CONTROL APPROVAL AND IT SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0130-06
Expiration Date 08/09/2006
By *Helmy A. Moller*
Miami Dade Product Control
Division

6-6-03

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.		MITSUBISHI CHEMICAL AMERICA, INC.	
FRACTIONS ± 1/32	DECIMALS .XX ± .01 .XXX ± .005	ANGLES ± 1/2	APPROVALS	DATE	ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS	
MATERIAL			DRAWN		SIZE B	
FINISH			ENGINEERING MS	11/11/02	CAGE CODE	
DO NOT SCALE DRAWING			PROJ MGMT		DWG NO. 1	
			PRODUCTION		REV	
			SCALE		SHEET 1 OF 10	



THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.

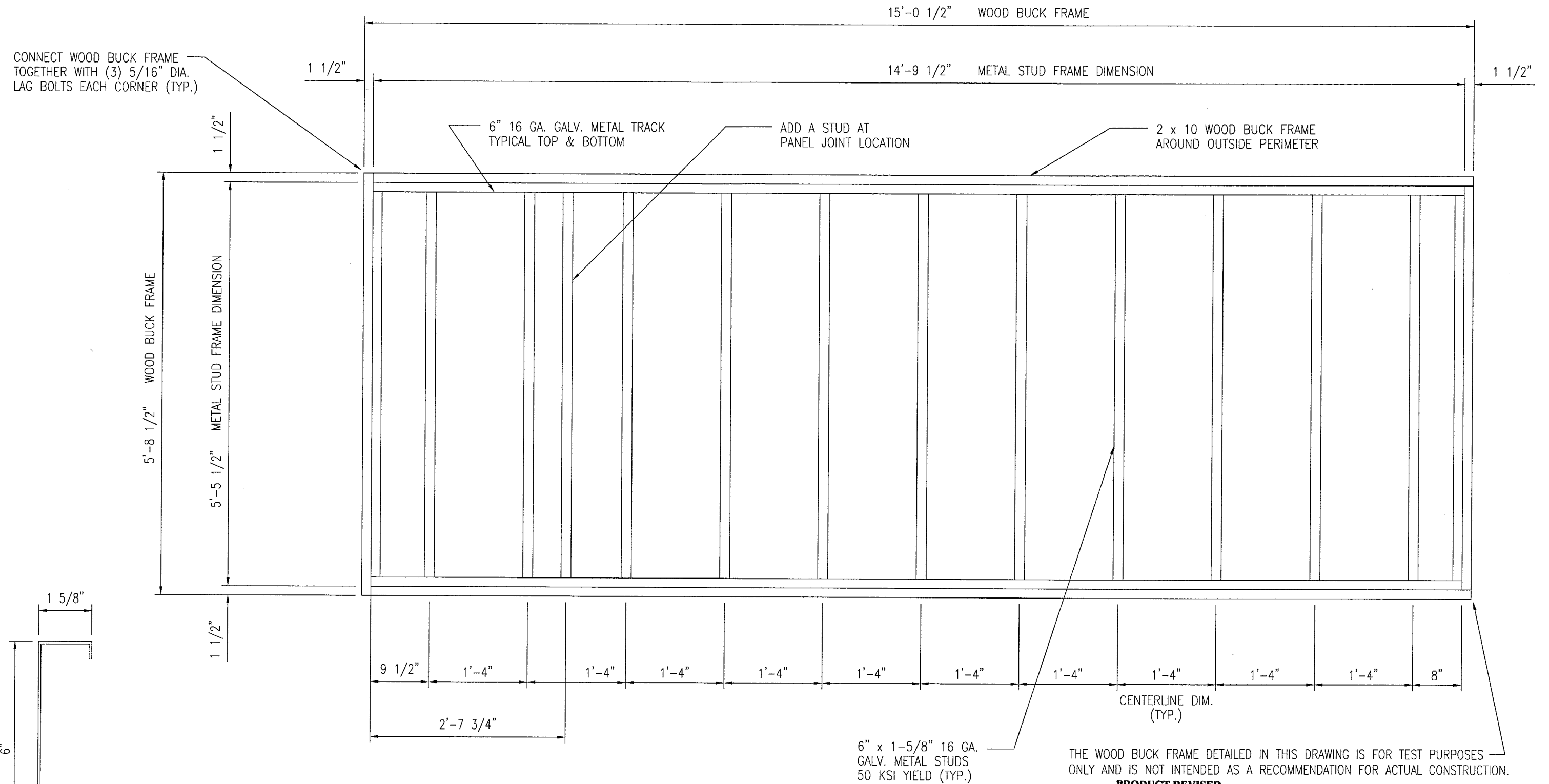
PANEL ELEVATION

3/4" = 1'-0"

Handwritten signature and date: 6-6-03

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0130.06
Expiration Date 08/09/2006
By Heather A. Walker
Miami Dade Product Control
Division

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 ± 1/2 .XXX ± .005 MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr FINISH DO NOT SCALE DRAWING	CONTRACT NO.		MITSUBISHI CHEMICAL AMERICA, INC.					
	APPROVALS		DATE		ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
	DRAWN							
	ENGINEERING MS		11/11/02					
	PROJ MGMT				SIZE B	CAGE CODE	DWG NO. 1	REV 1
PRODUCTION				SCALE SHOWN		SHEET 2 OF 10		



STUD FRAMING ELEVATION

3/4" = 1'-0"

PRODUCT REVISED
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Expiration Date 08/09/2006
By *Helmut A. Maden*
Miami Dade Product Control
Division

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.		Kistler McDougall	
FRACTIONS ± 1/32	DECIMALS XX ± .01 XXX ± .005	ANGLES ± 1/2	APPROVALS		DATE	
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr			DRAWN		11/11/02	
FINISH			ENGINEERING MS		11/11/02	
DO NOT SCALE DRAWING			PROJ MGMT		1	
			PRODUCTION		1	
			SCALE SHOWN		SHEET 3 OF 10	

ALPOLIC and ALPOLIC/fr
COMPOSITE WALL PANEL SYSTEMS

#12 x 1 1/2" HWH WOOD SCREW
@16" O.C. TO MAIN STRUCTURE

2 X 10 WOOD BUCK FRAME
CONNECT FRAME TOGETHER WITH
(3) 5/16" DIA. LAG BOLTS

DOW CORNING *795 SILICONE
SEALANT & 3/4" DIA. OPEN CELL
BACKER ROD (TYPICAL)

#10 x 1" HWH TEK SCREW
16" O.C. TYPICAL EACH PANEL

4MM OR 6MM ALPOLIC
OR 4MM ALPOLIC/fr
ALUMINUM COMPOSITE
PANEL

ATTACH EACH STUD TO TRACK
W/ #12 x 1 1/2" HWH
TRAXX 3 BUILDUP SCREWS
TWO (2) EA. SIDE

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#12 x 1 1/2" HWH TEK SCREW
16" O.C. (FASTEN TO STUDS)

PLASTIC SHIM SPACE
(AS REQUIRED)

A2 ALUMINUM
EXTRUSION

6" X 16 GA.
GALV. STEEL STUD
16" O.C.

1
4
DETAIL
SCALE: 6" = 1'

HS EXTRUDED ALUMINUM
PANEL STIFFENER

DOW-CORNING #1199
SILICONE SEALANT

HR EXTRUDED ALUMINUM
PANEL STIFFENER

#12 x 1 1/2" HWH TEK SPACE
16" O.C. (FASTEN TO STUDS)

PLASTIC SHIM SPACE
(AS REQUIRED)

6" X 16 GA.
GALV. STEEL STUD
16" O.C.

2
4
STIFFENER DETAIL
SCALE: 6" = 1'

#10 x 1" HWH TEK SCREW
16" O.C. TYPICAL EACH PANEL

BACKER ROD
AND SEALANT

1/2"

F2 ALUMINUM
EXTRUSION

2 1/4"
MIN.

M2 ALUMINUM
EXTRUSION

#12 x 1 1/2" HWH TEK SCREW
16" O.C. (FASTEN TO STUDS)

PLASTIC SHIM SPACE
(AS REQUIRED)

6" X 16 GA.
GALV. STEEL STUD
16" O.C.

3
4
JOINT DETAIL
SCALE: 6" = 1'

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0130.06
Expiration Date 08/09/2006
By *Helmut A. Heller*
Miami Dade Product Control
Division

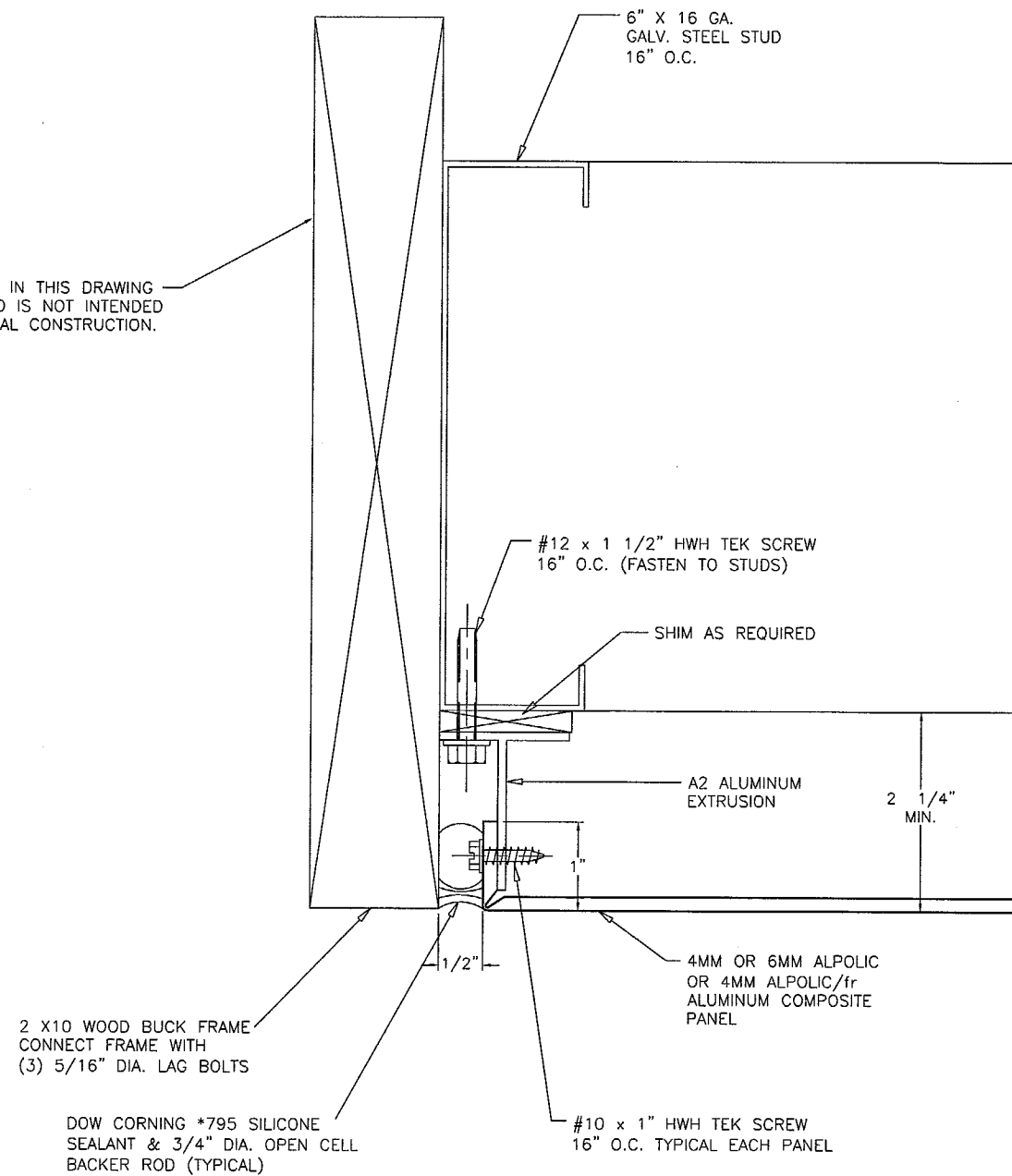
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.		Kistler McDougall	
FRACTIONS ± 1/32	DECIMALS .XX ± .01 .XXX ± .005	ANGLES ± 1/2	APPROVALS		DATE	
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr			DRAWN		DATE	
FINISH			ENGINEERING MS		11/11/02	
DO NOT SCALE DRAWING			PROJ MGMT		DATE	
			PRODUCTION		DATE	
			SIZE		CAGE CODE	
			B		DWG NO.	
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					1	
			SCALE SHOWN		SHEET 4 OF 10	

MITSUBISHI CHEMICAL AMERICA, INC.

ALPOLIC and ALPOLIC/fr
COMPOSITE WALL PANEL SYSTEMS

Helmut A. Heller
6-6-03

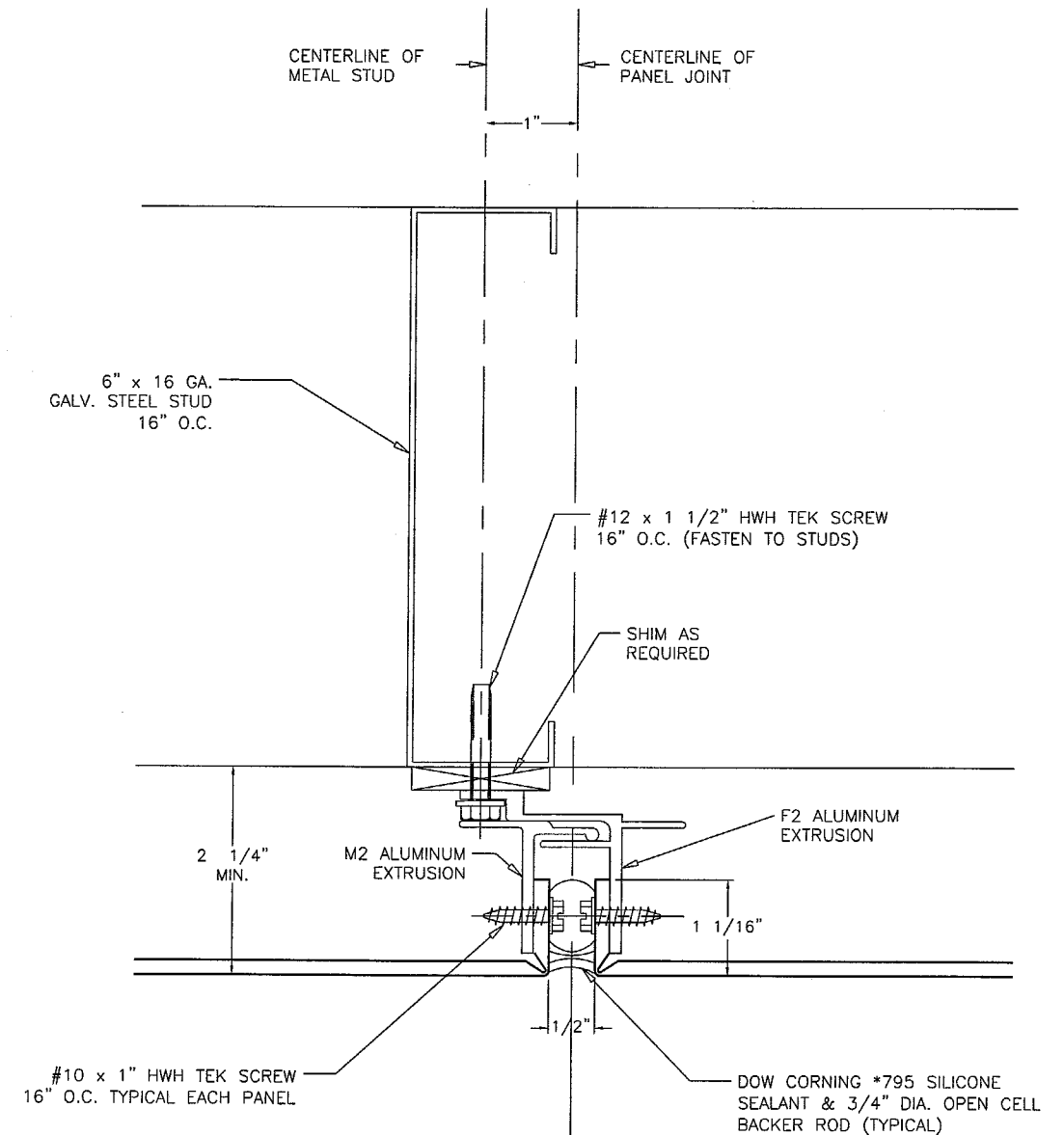
THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.



4
5

DETAIL

SCALE: 6" = 1'



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Expiration Date 08/09/2006
By *Heather A. Hester*
Miami Dade Product Control
Division

5
5

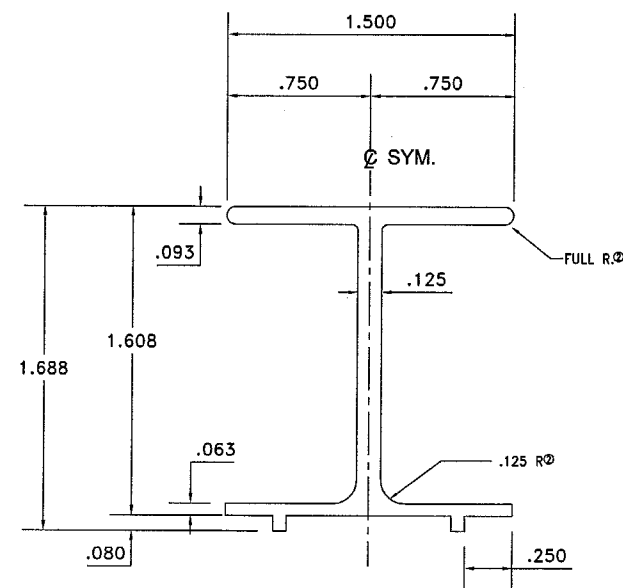
DETAIL

SCALE: 6" = 1'

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.		Kistler McDougall	
FRACTIONS ± 1/32	DECIMALS XX ± .01 XXX ± .005	ANGLES ± 1/2	APPROVALS		DATE	
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr			DRAWN			
FINISH			ENGINEERING		MS 11/11/02	
DO NOT SCALE DRAWING			PROJ MGMT			
			PRODUCTION			
			MITSUBISHI CHEMICAL AMERICA, INC.			
			ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
SIZE B	CAGE CODE	DWG NO. 1	REV 1			
SCALE SHOWN			SHEET 5 OF 10			

Heather A. Hester
0-6-03

HS



BREAK CORNERS .015 R

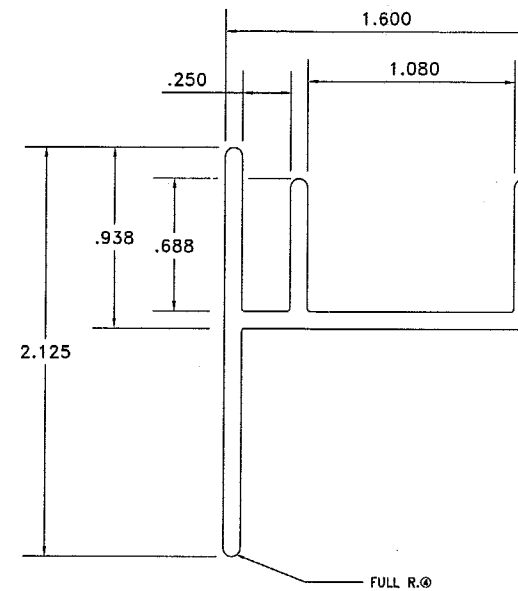
EXCEPT AS NOTED

ACTUAL SIZE

DIE DATA

EST. AREA: .430 DIE SIZE: 6
EST. WEIGHT: .516 NO. HOLES: 1
EST. PERI.: EXT. LENGTH: 5 1/8" = 1 @ 35'
FACTOR: R/R:

HR



BREAK CORNERS .015 R

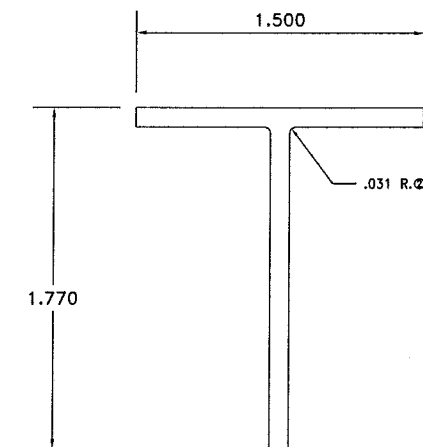
.090 TYPICAL METAL THICKNESS

ACTUAL SIZE

DIE DATA

EST. AREA: .465 DIE SIZE: 6
EST. WEIGHT: .558 NO. HOLES: 1
EST. PERI.: EXT. LENGTH: 5 1/8" = 1 @ 36'
FACTOR: R/R

A2



BREAK CORNERS .010 R

.100 WALL THICK TYPICAL

ACTUAL SIZE

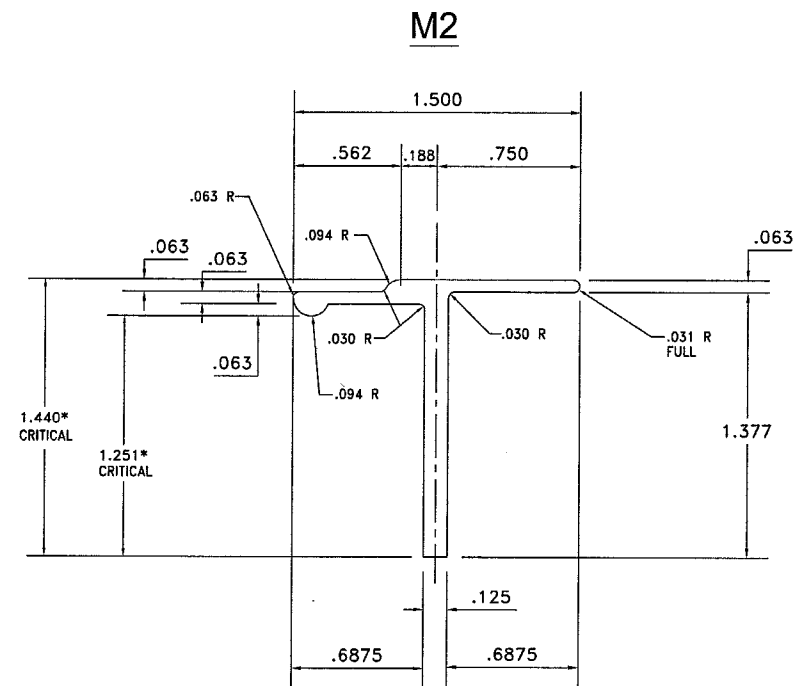
DIE DATA

EST. AREA: .317 DIE SIZE: 6
EST. WEIGHT: .380 NO. HOLES: 1
EST. PERI.: 6.54 EXT. LENGTH:
FACTOR: 17 R/R: 5 1/8" = 1 @ 53'

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0130-06
Expiration Date 08/09/2006
By *Helmut H. Hefner*
Miami Dade Product Control
Division

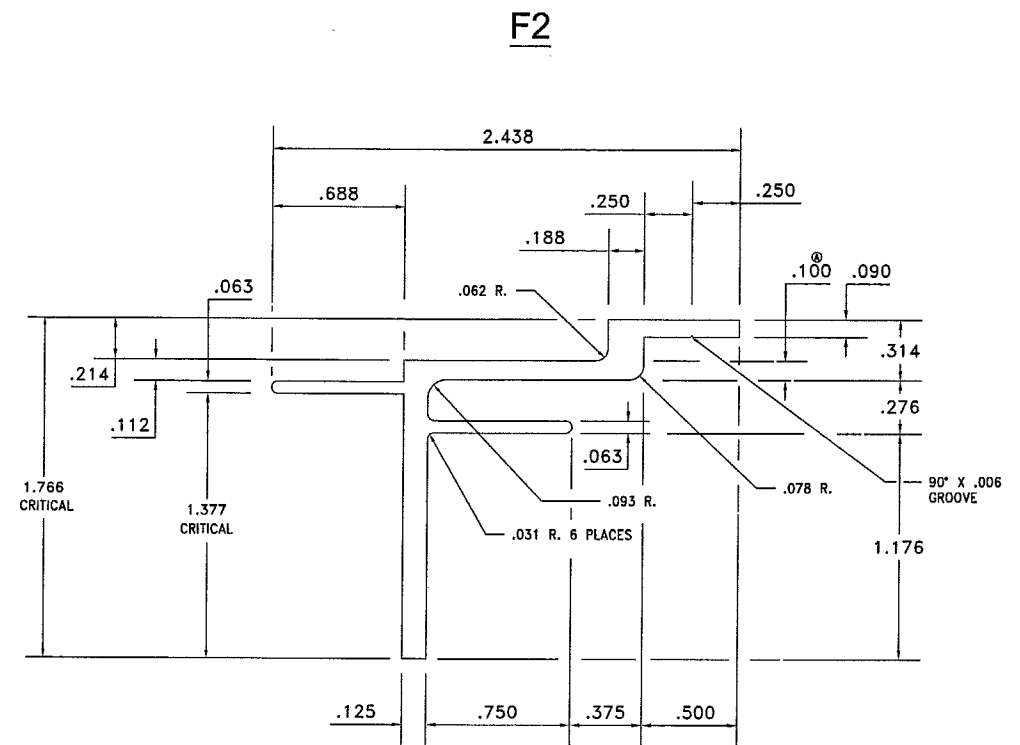
Kistler McDougall			
MITSUBISHI CHEMICAL AMERICA, INC.			
ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 ± .01 ± 1/2 XXX ± .005		CONTRACT NO.	
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr		APPROVALS	
FINISH		DATE	
DO NOT SCALE DRAWING		PROJ MGMT	
		PRODUCTION	
		SIZE CAGE CODE DWG NO. REV	
		B 1 11/11/02 1 0	
		SCALE SHEET 6 OF 10	

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6-6-03



ACTUAL SIZE
BREAK SHARP CORNERS .005 R

DIE DATA
EST. AREA: .275 DIE SIZE: 6
EST. WEIGHT: .330 NO. HOLES: 1
EST. PERI.: 5.831 EXT. LENGTH: 4 1/2 = 1- 46'
FACTOR: 18 R/R: 5 1/8" = 1- 62'



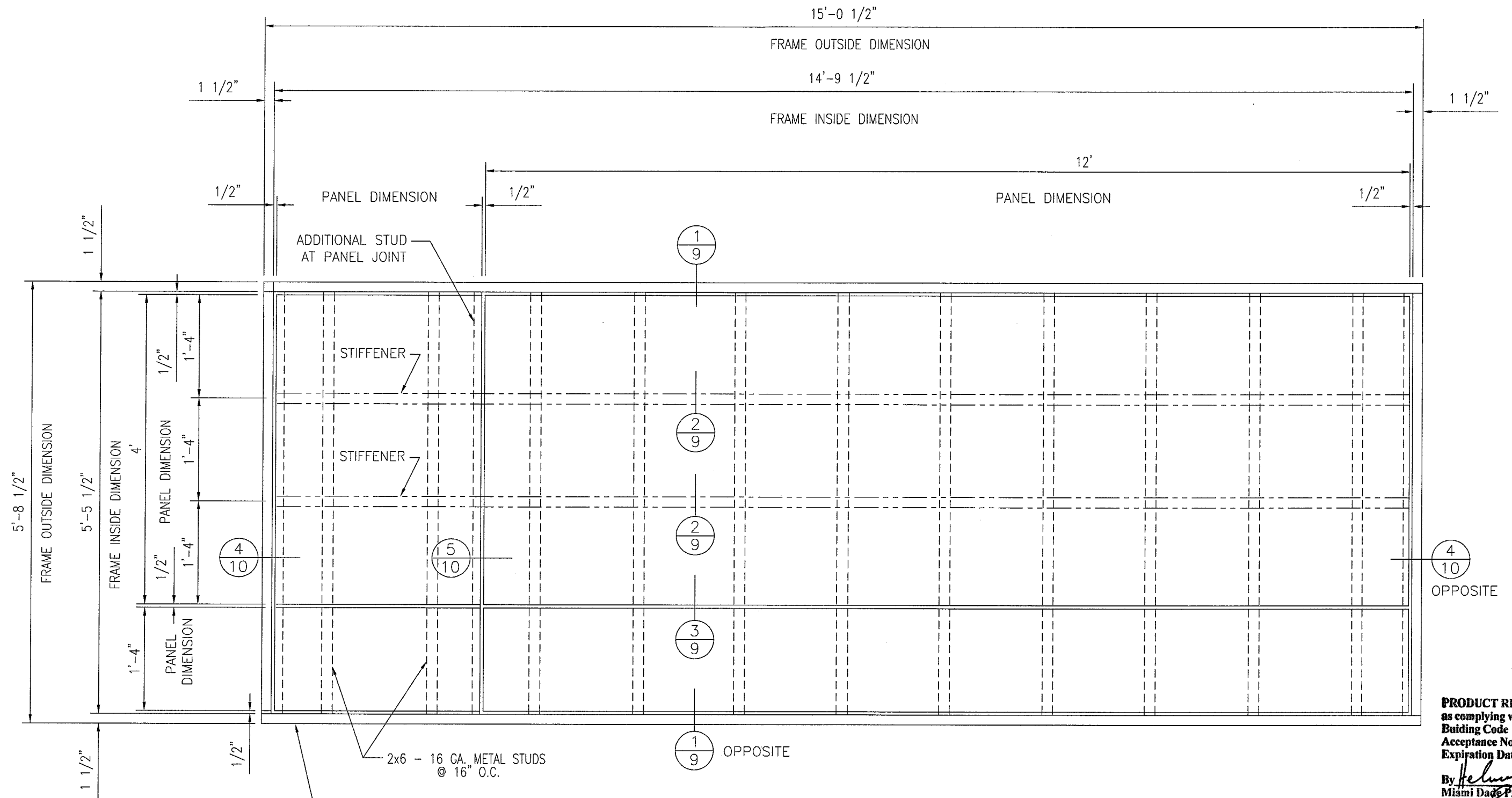
ACTUAL SIZE
BREAK SHARP CORNERS .010R

DIE DATA
EST. AREA: .484 DIE SIZE: 6
EST. WEIGHT: .581 NO. HOLES: 1
EST. PERI.: 9.900 EXT. LENGTH: 5 1/8 = 1@34'
FACTOR: 17 R/R

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By *Heather A. Miller*
Miami Dade Product Control
Division

Kistler McDougall											
MITSUBISHI CHEMICAL AMERICA, INC.											
ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS											
<table border="1"> <tr> <td>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .005 ± .01 ± 1/2 XXX ± .005</td> <td>CONTRACT NO.</td> </tr> <tr> <td>MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr</td> <td>APPROVALS DATE</td> </tr> <tr> <td>FINISH</td> <td>ENGINEERING MS 11/11/02</td> </tr> <tr> <td>DO NOT SCALE DRAWING</td> <td>PROJ MGMT</td> </tr> <tr> <td></td> <td>PRODUCTION</td> </tr> </table>		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .005 ± .01 ± 1/2 XXX ± .005	CONTRACT NO.	MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr	APPROVALS DATE	FINISH	ENGINEERING MS 11/11/02	DO NOT SCALE DRAWING	PROJ MGMT		PRODUCTION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .005 ± .01 ± 1/2 XXX ± .005	CONTRACT NO.										
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DO NOT SCALE DRAWING	PROJ MGMT										
	PRODUCTION										
SIZE B	CAGE CODE DWS NO. 1										
SCALE	REV 0										
SHEET 7 OF 10											

6-6-03



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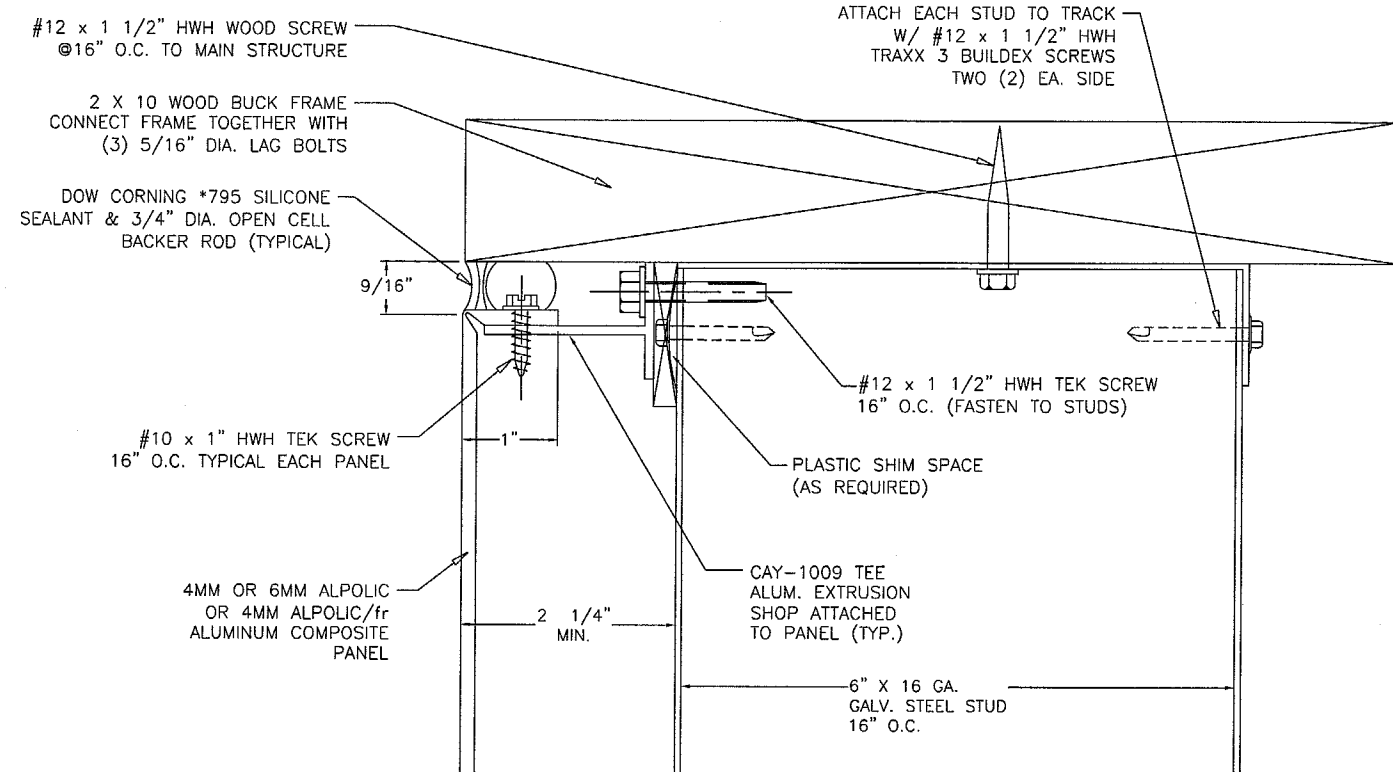
PANEL ELEVATION

3/4" = 1'-0"

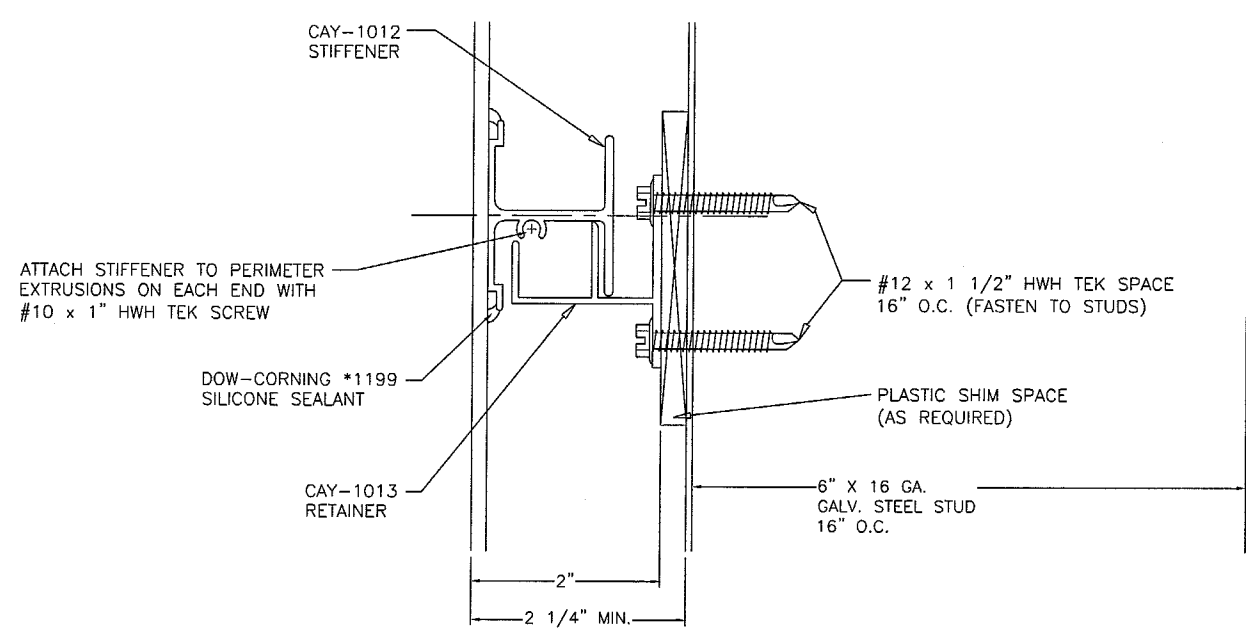
[Handwritten Signature]
8-6-03

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Expiration Date 08/09/2006
By *[Handwritten Signature]*
Miami Dade Product Control
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DO NOT SCALE DRAWING			PRODUCTION		SIZE B		CAGE CODE		DWG NO. 1		REV 1		
						SCALE SHOWN				SHEET 8 OF 10			

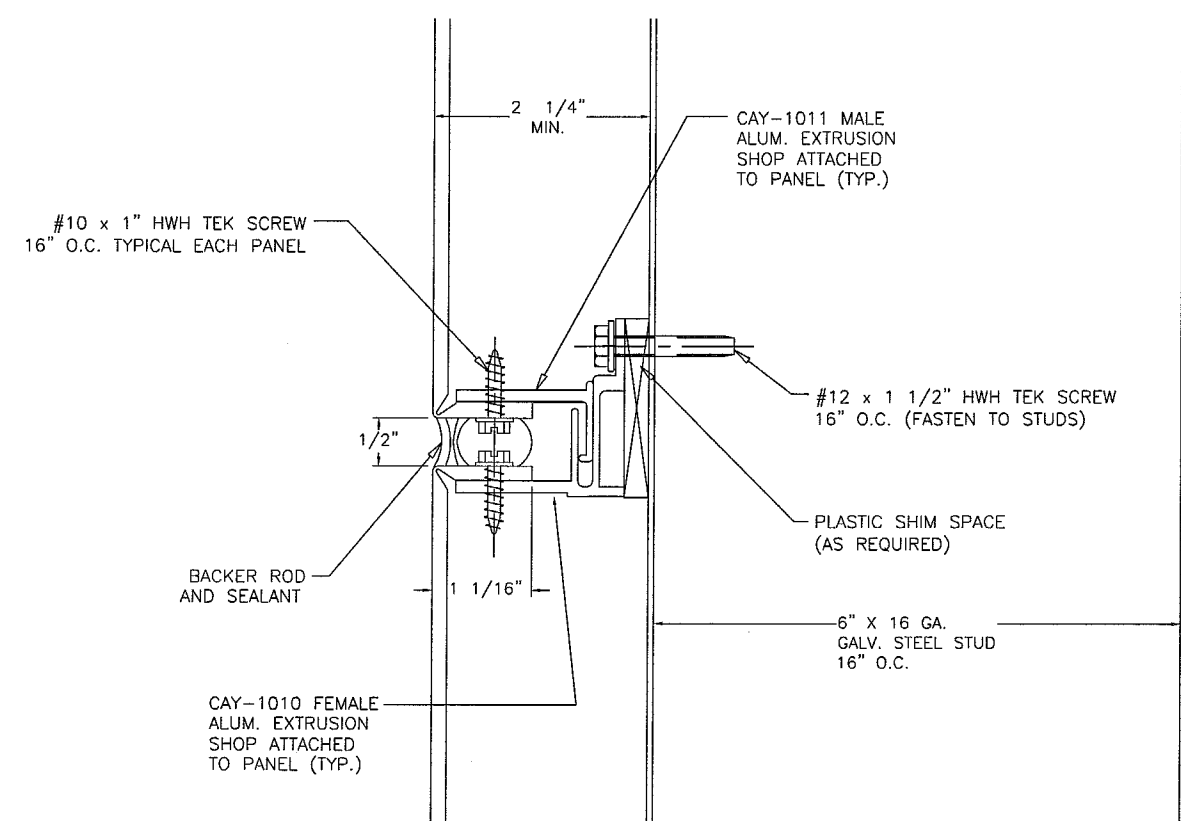


1
9
DETAIL
SCALE: 6" = 1'



2
9
STIFFENER DETAIL
SCALE: 6" = 1'

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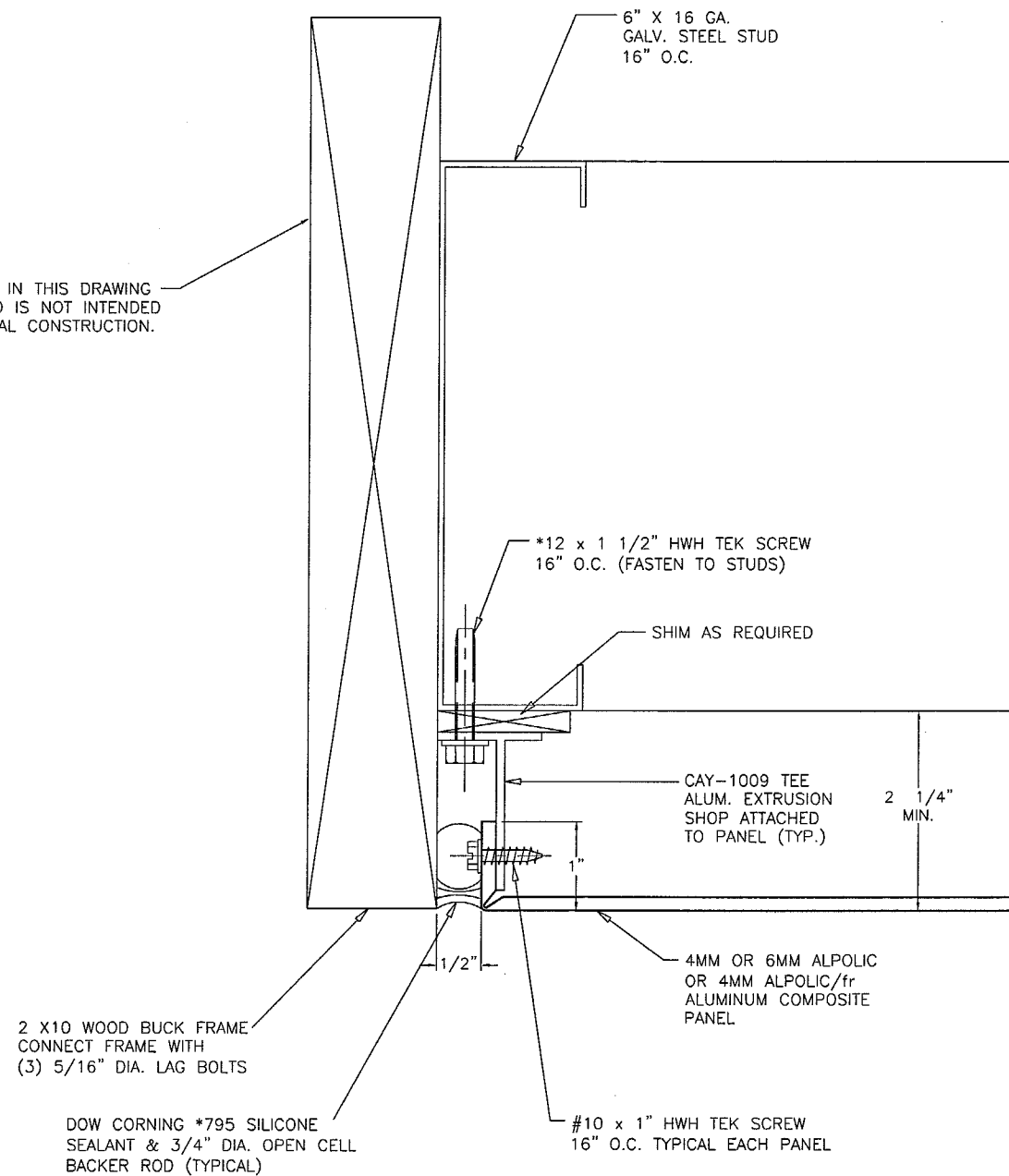
3
9
JOINT DETAIL
SCALE: 6" = 1'

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By *Helmut A. Weber*
Miami Data Product Control
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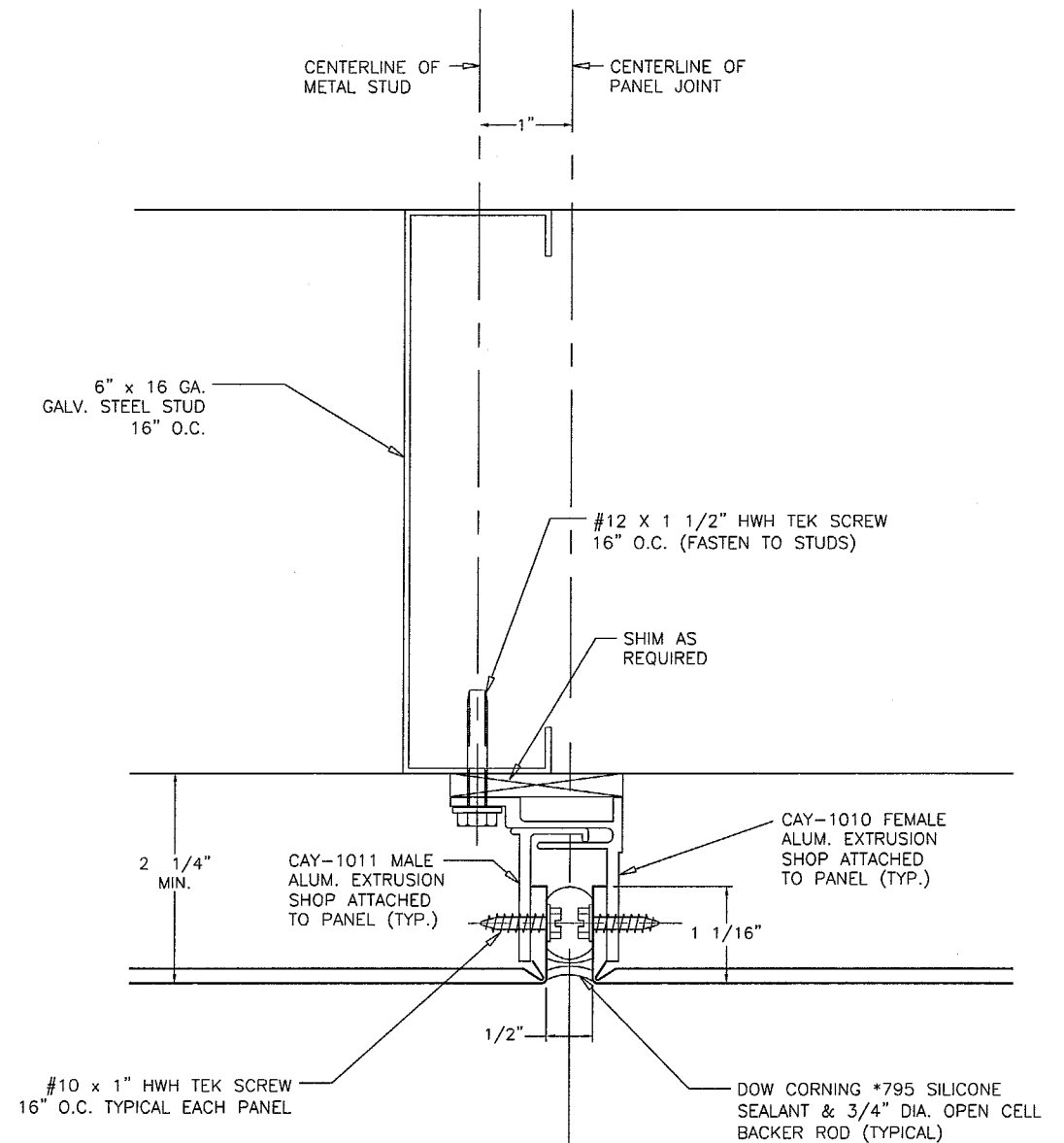
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FINISH			ENGINEERING		MS					
			PROJ MGMT		11/11/02					
DO NOT SCALE DRAWING			PRODUCTION				SIZE	CAGE CODE	DWG NO.	REV
							B		1	1
							SCALE	SHOWN	SHEET 9 OF 10	

Helmut A. Weber
6-6-03

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.



4
10
DETAIL
SCALE: 6" = 1'



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Expiration Date 08/09/2006
By *Helmut A. M...*
Miami Dade Product Control
Division

5
10
DETAIL
SCALE: 6" = 1'

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.		MITSUBISHI CHEMICAL AMERICA, INC.				
FRACTIONS ± 1/32	DECIMALS .XX ± .01 .XXX ± .005	ANGLES ± 1/2							
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr	APPROVALS		DATE		ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS				
	DRAWN								
FINISH	ENGINEERING MS		11/11/02						
DO NOT SCALE DRAWING		PROJ MGMT							
		PRODUCTION				SIZE B	CAGE CODE	DWG NO. 1	REV 1
						SCALE SHOWN		SHEET 10 OF 10	

Helmut A. M...
6-6-03